

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,993	01/22/2004	David Louis Burrus	13DV-13395-05	6001
75	08/12/2004		EXAM	INER
Steven J. Rosen			CASAREGOLA, LOUIS J	
Patent Attorney			ART UNIT	PAPER NUMBER
4729 Cornell Ro			ARTONII	FAFER NUMBER
Cincinnati, OH	45241		3746	
			DATE MAILED: 08/12/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	\'
	10/762,993	BURRUS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Louis J. Casaregola	3746	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet v	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio Failure to reply within the set or extended period for reply will, by statu- Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a ply within the statutory minimum of th d will apply and will expire SIX (6) MC ate. cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communicatio BANDONED (35 U.S.C. § 133).	on.
Status			
1) Responsive to communication(s) filed on	·		
/ ,—·	is action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under			S
Disposition of Claims			
4) ☐ Claim(s) 17-25 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 17-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examination			
10)☐ The drawing(s) filed on is/are: a)☐ ad			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre			(d)
11) The oath or declaration is objected to by the			(u).
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority docume application from the International Bure * See the attached detailed Office action for a limit of the priority document of	ints have been received. Ints have been received in initionity documents have been (PCT Rule 17.2(a)).	Application No In received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152)	

Application/Control Number: 10/762,993

Art Unit: 3746

Objections To Claims

Claims 18-25 are objected to under 37 CFR 1.75(a) for the following reasons:

In claim 18 and related dependent claims 19-25, "said film cooling holes" (claim 18, lines 3, 5, and 7) lack antecedent basis.

In claims 18 and 24, "said aft walls" (line 3) and "said forward walls" (line 5) also lack antecedent basis. Note that in this instance, the antecedent supports only a single forward wall and a single aft wall rather than the plural walls recited in the claims.

In claims 20 and 23, "said and outer wall" (last line) contains a transcription error; it appears that the terms "said" and "and" have been inadvertently reversed.

Claim Rejections - 35 USC § 112

Claims 17-25 are rejected under 35 U.S.C. § 112, first and second paragraphs, as the claimed invention is not described in such full, clear, concise and exact terms as to enable any person skilled in the art to make and use the same, and/or for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

Application/Control Number: 10/762,993

Art Unit: 3746

This case encompasses multiple species of a gas turbine combustor can assembly, but the claims are all drawn to the embodiment with the reverse flow path shown in Figures 7-9; see lines 28-32 in independent claim 17. As disclosed, this embodiment includes air injection first holes 112 in aft wall 44 and air injection second holes 114 in forward wall 46; see Figures 7 and 9 along with paragraph 0039 (spec. pages 15-16). The claims however recite the air injection holes as being reversed from those in the disclosure; i.e. the air injection first holes are in the forward wall and the air injection second holes are in the aft wall; see claim 17, lines 23-24. Note also that dependent claim 18 recites hole locations (lines 9-12) that contradict corresponding limitations in parent claim 17, but dependent claim 24 recites hole locations (lines 9-12) that agree with the limitations in claim 17 and contradict the limitations in claim 18. It thus appears that either the claim limitations directed to hole location are inaccurate and inconsistent, or the disclosure in this case includes significant errors with respect to this subject matter.

Dependent claim 22 further recites a "second stage pre-mixing convoluted mixer" (lines 2-3) along with "lobes extending radially" (line 5). It is not clear how this structure corresponds to the disclosed invention since neither the second stage mixer nor the lobes can be found in the apparatus shown in Figures 7-9. (Such elements do appear in the embodiment of Figure 5, but this is not a reverse flow combustor as specified in the present claims, hence, the claims cannot rely on Figure 5 for support.)

Application/Control Number: 10/762,993 Page 4

Art Unit: 3746

L. J. Casaregola 703-308-1027 (M-F; 7:30-4:00) 703-872-9306 FAX August 4, 2004

LOUIS J. CASAREGOLA
PRIMARY EXAMINER

If repeated attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu, can be reached at 703-308-2675.

Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).